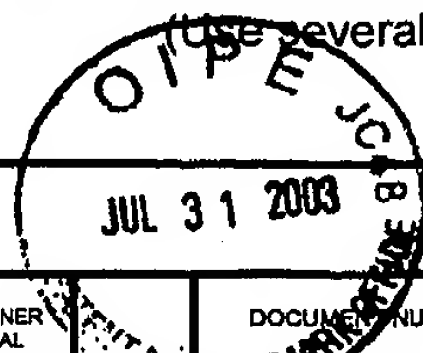


APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO BGI-141CP	SERIAL NO. 09/667569
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Yocum, R. Rogers et al.	
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U.S. PATENT DOCUMENTS

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DJS	A1 5,089,276	02/92	Yamashita et al.	424	686	
DJS	A2 5,294,542	03/94	Sloma et al.	435	69.1	
DJS	A3 5,518,906	05/96	Hikichi et al.	435	116	
DJS	A4 5,529,908	06/96	Palva et al.	435	69.1	
DJS	A5 5,534,420	07/96	Debono et al.	435	71.3	
DJS	A6 5,599,689	02/97	Haynie et al.	435	42	
DJS	A7 5,721,137	02/98	Frascotti et al.	435	320.1	
DJS	A8 5,756,536	05/98	Chen et al.	514	449	
DJS	A9 5,856,165	01/99	Van Solingen	435	209	
DJS	A10 5,912,164	06/99	Warneck et al.	435	280	
DJS	A11 5,925,538	07/99	Perkins et al.	435	66	
DJS	A12 5,932,457	08/99	Moriya et al.	435	146	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
DJS	A13	EP 224294 B1	06/87	EPO				
DJS	A14	EP 493060 A2, A3	07/92	EPO				
DJS	A15	EP 590857 A2	04/94	EPO				
DJS	A16	WO 97/10340 A1	03/97	PCT				
DJS	A17	WO 98/18954 A1	05/98	PCT				
DJS	A18	EP 1001027 A2, A3	05/00	EPO			x	
DJS	A19	EP 1001189 A2	06/00	EPO			x	
DJS	A20	EP 1001192 A2	06/00	EPO			x	
DJS	A21	EP 1001193 A2	06/00	EPO			x	
DJS	A22	WO 01/83799 A1	11/01	PCT				

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

DJS	A23	Baigori, M. et al. "Isolation and Characterization of <i>Bacillus subtilis</i> Mutants Blocked in the Synthesis of Pantothenic Acid" <i>J. Bacteriol.</i> 173(13):4240-4242 (Jul. 1991)
DJS	A24	Downs, DM "Evidence for a new, oxygen-related biosynthetic pathway for the pyrimidine moiety of thiamine in <i>Salmonella typhimurium</i> " <i>J. Bacteriol.</i> 174(5):1515-1521 (Mar. 1992)
DJS	A25	Downs, DM et al. "apbA, a New Genetic Locus Involved in Thiamine Biosynthesis in <i>Salmonella typhimurium</i> " <i>J. Bacteriol.</i> 176(16):4858-4864 (Aug. 1994)
DJS	A26	Dusch, N. et al. "Cloning and characterization of the <i>C. glutamicum</i> ATCC13032 panD gene coding for L-aspartate-?-decarboxylase" no. P-L 06 (Mar. 1999)

Examiner 	Date Considered 10/05/03
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	C1	GenBank AAA56681 ApbA protein [Salmonella typhimurium] 07 DEC 1994			
DJS	C2	GenBank Z99111 AL009126 Bacillus subtilis complete genome (section 8 of 21): from 1394791 26 NOV 1997			
DJS	C3	GenBank P52996 3-Methyl-2-Oxobutanoate Hydroxymethyltransferase (Ketopantoate Hydroxymethyltransferase) 01 OCT 1996			
DJS	C4	GenBank Z98682 Bacillus subtilis genomic DNA 23.9kB fragment 19 AUG 1997			
DJS	C5	GenBank O34661 Probable 2-Dehydropantoate 2-Reductase (Ketopantoate Reductase) (Kpa Reductase) 01 NOV 1998			
DJS	C6	GenBank CAB13317 similar to thiamin biosynthesis [Bacillus subtilis] 26 NOV 1997			
DJS	C7	GenBank CAB11364 YlbQ protein [Bacillus subtilis] 19 AUG 1997			
DJS	C8	GenBank P37402 2-dehydropantoate 2-reductase (Ketopantoate reductase) (KPA reductase) (KPR) 15 DEC 1998			
DJS	C9	GenBank P52999 Aspartate 1-decarboxylase precursor (Aspartate alpha-decarboxylase) Aspartate 1-decarboxylase precursor (Aspartate alpha-decarboxylase) 15 DEC 1998			
DJS	C10	GenBank P77728 2-dehydropantoate 2-reductase (Ketopantoate reductase) (KPA reductase) (KPR) 15 DEC 1998			
DJS	C11	GenBank U09529 Salmonella typhimurium LT2 ApbA protein (apbA) gene, complete cds 07 DEC 1994			
DJS	C12	GenBank Z98682 Bacillus subtilis genomic DNA 23.9kB fragment 19 AUG 1997			
DJS	C13	GenBank P37253 Ketol-acid reductoisomerase (Acetohydroxy-acid isomeroreductase) (Alpha-keto-beta-hydroxylacil reductoisomerase) 15 DEC 1998			
DJS	C14	GenBank P37252 Acetolactate synthase small subunit (AHAS) (Acetohydroxy-acid synthase small subunit) (ALS) 15 DEC 1998			
DJS	C15	GenBank P37251 Acetolactate synthase large subunit (AHAS) (Acetohydroxy-acid synthase large subunit) (ALS) (Vegetative protein 105) (VEG105) 15 JUL 1998			
DJS	C16	GenBank P52998 Pantoate--beta-alanine ligase (Pantothenate synthetase) (Pantoate activating enzyme) 15 DEC 1998			
DJS	C17	GenBank P51785 Dihydroxy-acid dehydratase (DAD) (Vegetative protein 110) (VEG110) 15 DEC 1998			
DJS	C18	GenBank F69875 pyrimidine-thiamin biosynthesis homolog ylbQ - Bacillus subtilis. 05-NOV-1999			
DJS	C19	EMBL L47709 Bacillus subtilis (clone YAC15-6B) ypiABF genes, qcrABC genes, ypiABCDEFGHI DE genes, birA gene, panBCD genes, dinG gene, ypmB gene, aspB gene, asnS gene, DE dnaD gene, nth gene and ypoC gene, complete cds. 23 JAN 1996			
Examiner <i>[Signature]</i>			Date Considered <i>10/05/03</i>		
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<i>DJS</i>	B1	Nusch, N. et al. "Expression of the <i>Corynebacterium glutamicum</i> <i>panD</i> Gene Encoding L-Aspartate- α -Decarboxylase Leads to Pantothenate Overproduction in <i>Escherichia coli</i> " <i>Applied and Environmental Microbiology</i> 65(4):1530-1539 (Apr. 1999)
<i>DJS</i>	B2	Elischewski, F. et al. "Pantothenate production in <i>Escherichia coli</i> K12 by enhanced expression of the <i>panE</i> gene encoding ketopantoate reductase" <i>J. Biotechnol.</i> 75(2-3):135-46 (Oct. 8, 1999)
<i>DJS</i>	B3	Elischewski, F. et al. "Identification and analysis of the <i>panE</i> gene involved in pantothenate biosynthesis in <i>Escherichia coli</i> K12" Abstract no. P-L 29 (Mar. 1999)
<i>DJS</i>	B4	Frodyma, ME et al. "ApbA, the Ketopantoate Reductase Enzyme of <i>Salmonella typhimurium</i> is Required for the Synthesis of Thiamine via the Alternative Pyrimidine Biosynthetic Pathway" <i>J. Biol. Chem.</i> 273(10):5572-5576 (Mar. 6, 1998)
<i>DJS</i>	B5	Frodyma, ME et al. "The <i>panE</i> Gene, Encoding Ketopantoate Reductase, Maps at 10 Minutes and Is Allelic to <i>apbA</i> in <i>Salmonella typhimurium</i> " <i>J. Bacteriol.</i> 180(17):4757-4759 (Sep. 1998);
<i>DJS</i>	B6	Hoch, JA et al. "Panspermia, spores and the <i>Bacillus subtilis</i> genome." <i>Nature</i> 390(6657):237-8 (Nov. 20, 1997)
<i>DJS</i>	B7	Jackowski, S. "Biosynthesis of Pantothenic Acid and Coenzyme A" in <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> : Cellular and molecular biology, Second edition. (Neidhardt et al. Eds.) Washington, D.C.: American Society of Microbiology, 687-694 (1995);
<i>DJS</i>	B8	Kunst, F. et al. "The complete genome sequence of the Gram-positive bacterium" <i>Bacillus subtilis</i> " <i>Nature</i> 390(6657):249-56 (Nov. 20, 1997)
<i>DJS</i>	B9	Merkel, WK et al. Characterization and sequence of the <i>Escherichia coli</i> <i>panBCD</i> gene cluster" <i>FEMS Microbiol Lett.</i> 143(2-3):247-52 (Oct. 1, 1996)
<i>DJS</i>	B10	Ramjee, MK et al. " <i>Escherichia coli</i> L-aspartate- α -decarboxylase: preprotein processing and observation of reaction intermediates by electrospray mass spectrometry" <i>Biochem. J.</i> 323 (Pt 3):661-9 (May 1, 1997)
<i>DJS</i>	B11	Sahm, H. et al. "D-Pantothenate Synthesis in <i>Corynebacterium glutamicum</i> and Use of <i>panBC</i> and Genes Encoding L-Valine Synthesis for D-Pantothenate Overproduction" <i>Applied and Environmental Microbiology</i> 65(5):1973-1979 (May 1999)
<i>DJS</i>	B12	Shimizu, S. et al. "Ketopantoic Acid Reductase of <i>Pseudomonas maltophilia</i> 845" <i>J. Biol. Chem.</i> 263(24):12077-12084 (Aug. 25, 1988)
<i>DJS</i>	B13	Sorokin, A. et al. "Sequence analysis of the <i>Bacillus subtilis</i> chromosome region between the <i>serA</i> and <i>kdg</i> loci cloned in a yeast artificial chromosome" <i>Microbiology</i> 142:2005-2016 (1996)
<i>DJS</i>	B14	Vandamme, EJ "Production of vitamins, coenzymes and related biochemicals by biotechnological processes" <i>J. Chem. Tech. Biotechnol.</i> 53(4):313-327 (1992)
<i>DJS</i>	B15	Vandamme, EJ "The search for novel microbial fine chemicals, agrochemicals and biopharmaceuticals" <i>J. Biotechnol.</i> 37(2):89-108 (1994)
<i>DJS</i>	B16	GenBank U09529 <i>Salmonella typhimurium</i> LT2 ApbA protein (<i>apbA</i>) gene, complete cds. 07-DEC-1994
<i>DJS</i>	B17	GenBank P37402 2-dehydropantoate 2-reductase (Ketopantoate reductase) (KPA reductase) (KPR) 15-DEC-1998

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